

## ABSTRACT OF THE DISCLOSURE

The present invention provides a battery structure for an electric vehicle which has an excellent cooling performance, which can  
5 fix battery cells securely, and which can improve work efficiency in assembling. A battery module 1 is provided with a battery case main body comprising an upper cover 4, a middle cover 5 and a lower cover 6, and two side covers covering exposed side surfaces of battery cells held in the battery case main body in a horizontal state. The upper  
10 cover 4 and the lower cover 6 are respectively formed with discharging side ventilating holes 14a and introducing side ventilating holes 14b which allow cooling air to flow upwardly and total aperture area of the discharging side ventilating holes 14a is set to 1/2 of total aperture area of the introducing side ventilating holes 14b. A  
15 plurality of holding ribs which divide the interior of the battery case into a plurality of partition rooms to hold the battery cells in a horizontal state are formed on the upper cover 4, the middle cover 5 and the upper cover 6. Cooling air is supplied from the lower cover 6 side to the upper cover 4 side.